

GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39 280885
-100.8215689

COMPANY & WELL: Eternity Expl. A7 Family Farms #1
LOCATION: 990' FSL 1980' FEL N2 SW SE
SEC 7 TWP 9S R3E 31W
COUNTY: Thomas STATE: KS

COMPANY: Eternity Exploration, LLC
API #: 15-193-20995 FIELD: WELL # #1
LEASE: A7 Family Farms
LOCATION: N2 SW SE
SURVEY: 990' FSL 1980' FEL
SECTION: 7 TWP 9S R3E 31W
COUNTY: Thomas STATE: Kansas

CONTRACTOR: STP Rig # 1
SPUD: 05-24-17 11:00 pm COMIP: ELEVATIONS
RTD: 4780 05-31-17 5:15 pm LTD: 4780 K.B. 2961
MUD UP AT: 3330 D.F. _____
MUD TYPE: Chemical, Kansas Drilling Technologies G.L. 2954
All measurements from K.B. 2961

ELEVATIONS	
K.B.	2961
D.F.	
G.L.	2954

All measurements from K.B. 2961

CASING RECORD	
Surface	0' of 8.920" w/ 165' sh
Conductor	220' of 8.920" w/ 165' sh
Production	0' of 8.920" w/ 165' sh

ELECTRICAL SURVEYS: ELI: Dual, NeuDen

FORMATION TOPS & STRUCTURAL POSITION

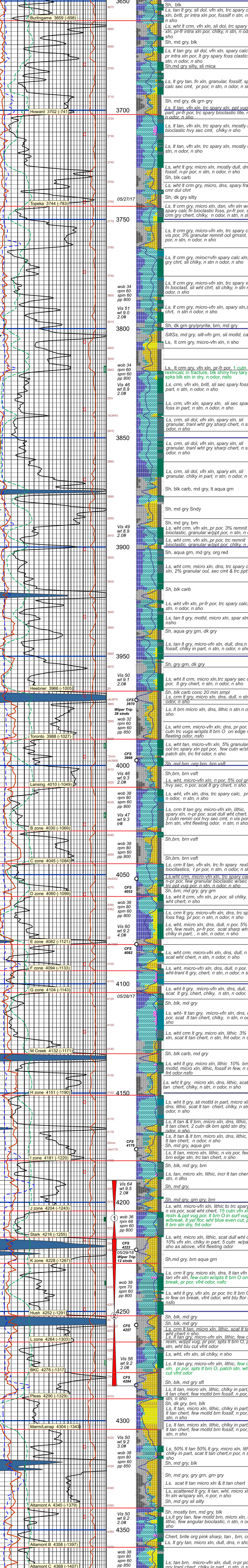
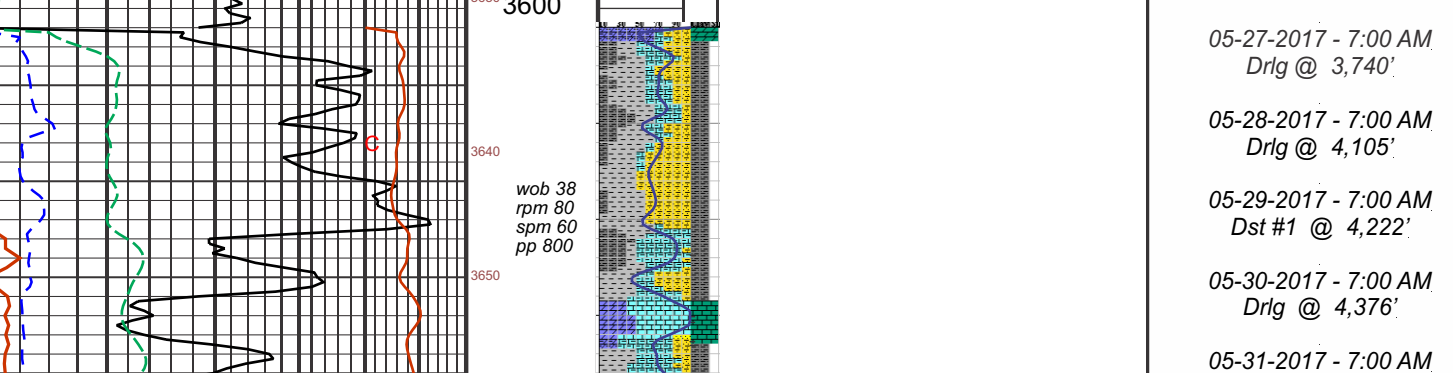
FORMATION	SAMPLE TOIRIS	SURSEA DATUM	ELEC LOG TOPS	SURSEA DATUM	REFERENCE WELL
Anyrite	2568	+393	2564	+397	2624 +408 -11
Bu/Amh	2601	+360	2567	+354	2578 +378 -14
Hogbaker	3744	-783	3740	-779	3732 -780 -19
Lansling	3966	-1005	3962	-1001	4020 -988 -13
Starke	4010	-1049	4006	-1045	4062 -1030 -15
Stark	4278	-1255	4272	-1251	4272 -1240 -11
Pawnee	4396	-1435	4392	-1431	4458 -1426 -5
Cherokee	4492	-1531	4488	-1527	4450 -1518 -9
Johnson	4529	-1568	4525	-1564	4594 -1562 -2
Miss	4565	-1604	4561	-1600	4634 -1602 +2
RTD	4680	-1719	4680	-1719	4730 -1698
LTD	4680	-1719	4680	-1719	4731 -1699

REFERENCE WELLS: A: Eternity Expl. Landenberg #1 Sec 13-T9S-R32W-330' FSL 330' FEL KB 3032
B: _____

REMARKS & RECOMMENDATIONS:
Based on weak sample shows and dat results the well was P&A
Logging tool was sticking on repeat & main run. 2nd run was not made for microlog.
*Note Drill Time is 4 feet lower than Electric logs.
Log curves have been moved down 4 feet.

LAN 762, Modified 5/05, 11/11, 4/12 Hanover, KS 66845 1inch = 25.4mm 8.5 x 9.5 216 mm x 2460 mm

LEGEND



Spud 11:00 AM, 05-24-2017
RTD 05:15 PM 05-31-2017

"BIT RECORD"
Surf/Bt 80' ser BR549, surf 220'
Bt No. 1 Smith 7-78", F18, ser R2088 in at 220' - out at 4680'

"VERTICAL SURVEYS"
75' @ 220' = 9
25' @ 4222' = 0
112' @ 4680' = 0

"PUMP DATA"
Emeco D-375
Stroke 14" Liner 6"
60 Stk/Mn
350 GAL/Mn

"DAILY REPORT"
05-24-2017 - 11:00 AM
Spud
Drig to 12 1/4" to 220'
Set new 5 1/2" 20# 8-5/8" set @ 220'
165 cc Common 3%CC, 2% Gel
Consolidated, did circ to pits
Plug down 04:30 am 05-25-17
Drig plug 12:30 am 05-25-17

05-25-2017 - 7:00 AM
Drig @ 1060'

05-26-2017 - 7:00 AM
Drig @ 2,835'

05-27-2017 - 7:00 AM
Drig @ 3,740'

05-28-2017 - 7:00 AM
Drig @ 4,105'

05-29-2017 - 7:00 AM
Drig @ 4,376'

05-31-2017 - 5:15 PM
RTD @ 4,780'

05-31-2017 - 11:00 PM
Rig up Halliburton
LTD @ 4,780'
Finish 2:00 AM

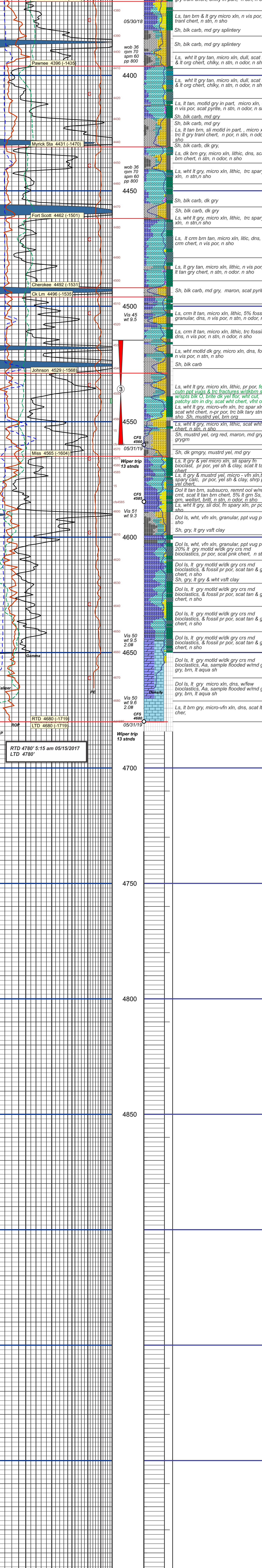
06-01-2017 - 7:00 AM
Idw/npipe @ 4,780'

Mud Check 4 at 3,620'
vis: 60 wt 9.2 Color: 3000
LCM 2# Ph: 10.9 WL: 6.6

Mud Check 5 at 4,153'
vis: 60 wt 9.2 Color: 3000
LCM 2.5# Ph: 10.0 WL: 6.4

Mud Check 6 at 4,222'
vis: 52 wt 9.2 Color: 3000
LCM 2.5# Ph: 9.1 WL: 7.2

Mud Check 7 at 4,404'
vis: 52 wt 9.2 Color: 3000
LCM 2.5# Ph: 9.2 WL: 6.8



REMARKS

DST (1) 4190-4222 LKC J 30-60-30-60
IF: Built to 1/4" died to surf
IS: no blow/NR
FF: no blow
Total Rec: 65' 62' OCM (30 97M) 3' Mud
FP: 44-47 FFP: 50-52
SIP: 1123 FSP: 1019
HP: 2111 FHP: 2217
Temp 128 F

DST (2) 4217-4284 LKC K & L 30-30-30-30
IF: Built to 1/4" NR
FF: N blow/NR
Total Rec: 130' Mud w/eps Oil
FP: 96-98 FFP: 99-99
SIP: 949 FSP: 80-82
HP: 2098 FHP: 2098
Temp 128 F

DST (3) 4515-4560 Johnson 30-30-30-30
IF: Built to 1/2" died 20' NR
FF: no blow/NR
Total Rec: 62M
FP: 57-66 FFP: 66-66
SIP: 143 FSP: 99-99
HP: 2311 FHP: 2296
Temp 129 F

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LEASE: A7 Family Farms #1 N2 SW SE
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K.B. 2961
D.F. _____
G.L. 2954
All measurements from K.B. 2961